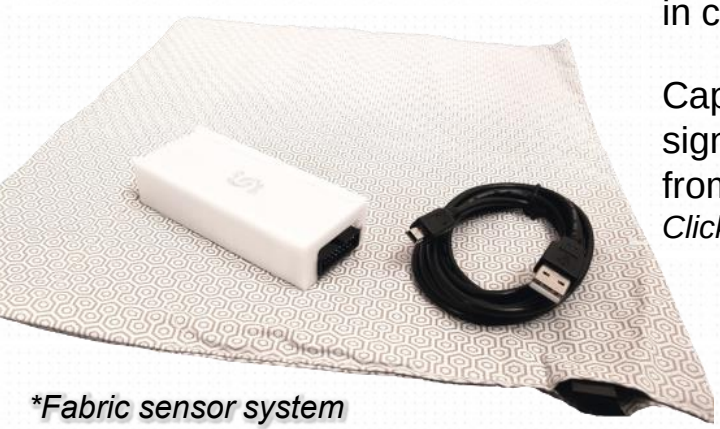
STUDIO 1 LABS
www.studio1labs.ca

Transforming Electronics into Fabrics

Electronic Fabric Technology

Fabric Sensors for advanced differential pressure sensing, that still functions while bending.
**Purchase can be made for fabric sensors alone, or a SDK system.*



**Fabric sensor system*

Fabric Pressure Sensor

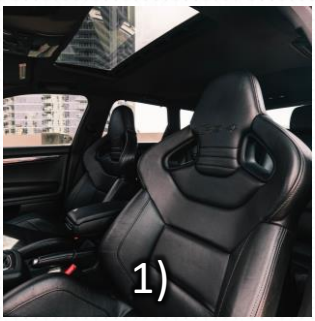
A differential pressure sensor that can fold and still function.

Made with innovative electronic fabric technology that functions with high precision in complex environments.

Capable of 3-Dimensional mapping *and* vital signs, while reducing signal interference from environmental noise.
Click HERE for demonstration of output signals.

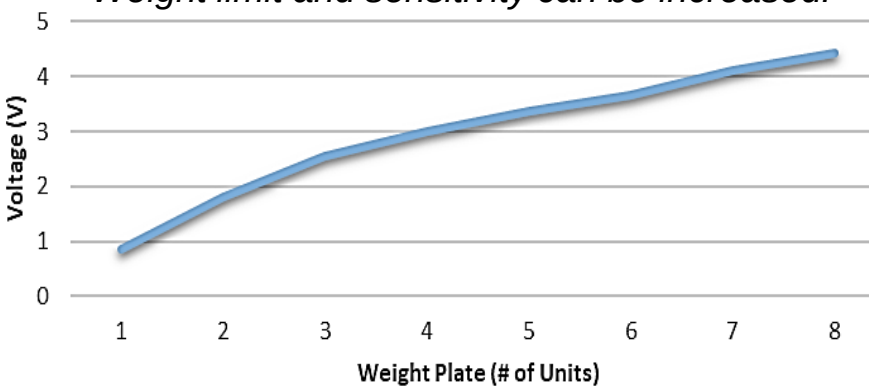
Use-Cases

1) Vehicle seat sensors
2) Health monitoring
3) Robot haptic touch



Pressure Reading

Weight limit and sensitivity can be increased.



- ✓ Validated in a clinical study for health monitoring (ClinicalTrials.gov Identifier: NCT03119103)
- ✓ Publication of clinical results

Contact Inquiries

contact@studio1labs.ca

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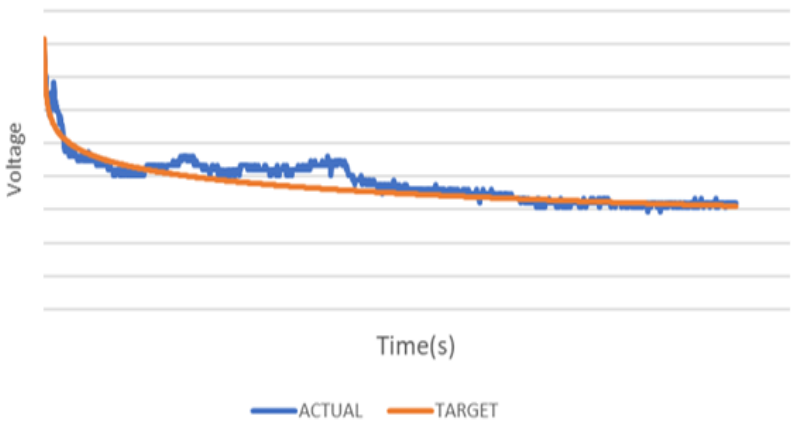
Sensor Comparisons

Sensor Specifications:
Output Signal: Voltage (V)Δ ~ Applied Force
Sensing Area:
1) Standard: 38.1.4 mm x 25.4 mm (1.5 inch X 1 inch)
2) Customizable: Surface area coverage & number of sensors in an array

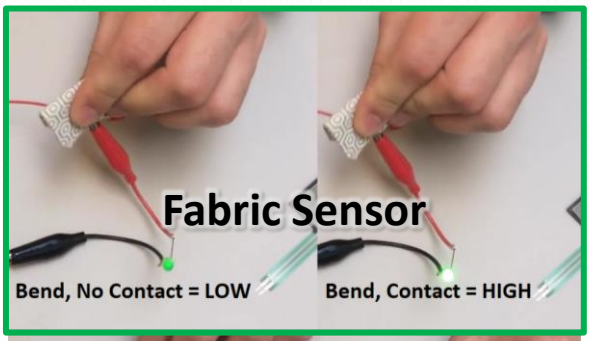
Sensor Resistivity: 0.6 Ω / cm
Power Consumption: 3.8W
Supply Voltage: 5V
Current: 0.7A
Heat Resistance: Less than 180℃

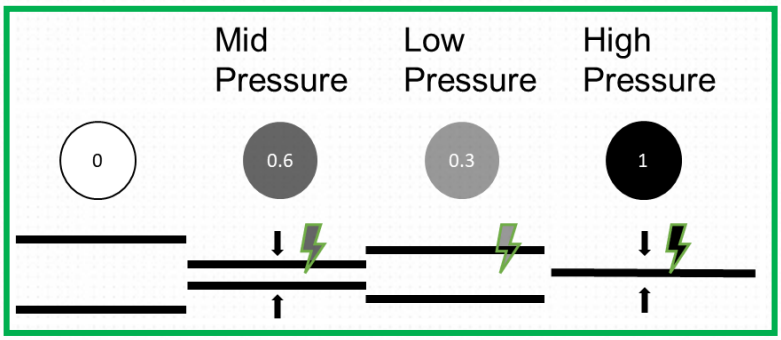
Signal Consistency

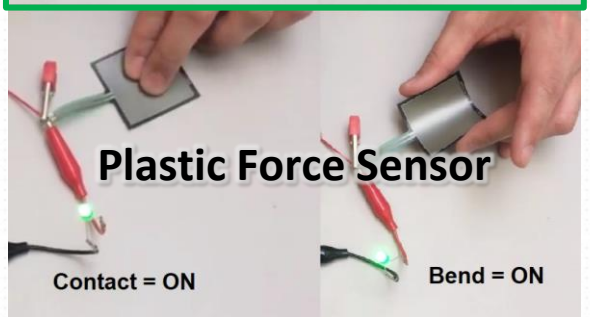
Test: 5 kg weight applied for 120 minutes

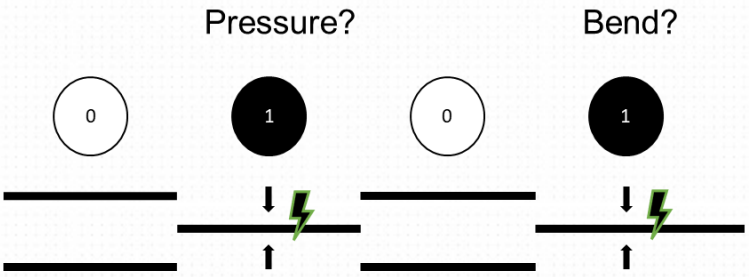


Sensor Comparison









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